

WHAT IS CLAIMED IS:

1. A casing, for use with light-emitting unit, that covers over a substrate with light emitting elements mounted thereon, the casing constituted by a first member and a second member which fixedly hold the substrate therebetween and which are approximately dish-shaped and are joined together in a mutually engaged manner such that a hollow area in which the substrate is disposed is formed therebetween,

wherein said second member has a projecting piece inserted to said first member and inside the projecting piece there is formed a passage that penetrates from near a top thereof to a bottom thereof so as to communicate the hollow area with the outside of the casing,

wherein at a position where the passage is connected to the outside of the casing there is formed an injection opening to inject fluid material to the hollow area via the passage,

wherein in the vicinity of the injection opening there is provided a discharge opening to discharge the injected fluid material from the hollow area,

wherein, in a state where said second member and said first member are being joined together and mutually engaged therewith, the hollow area is divided into a first-member side space and a second-member side space with the substrate

as a boundary therebetween, and a tip of the projecting piece is disposed in the first-member side space whereas the discharge opening is disposed near the second-member side space, and

wherein the hollow area is formed in a shape such that the fluid material injected from the injection opening flows from the first-member side space through the second-member side so as to be discharged from the discharge opening.

2. A casing for use with light-emitting unit according to Claim 1, wherein said first member is a member positioned in an upper side of the casing for use with light-emitting unit when in use and said first member has a substantially transparent area through which light emitted from the light emitting element transmits and wherein said second member is a member positioned in a back side of the casing for use with light-emitting unit when in use and the injection opening is provided at a position not on the upper side thereof when in use.

3. A casing for use with light-emitting unit according to Claim 1, wherein there is provided a concave on an outer surface of the second member and there is provided a discharge opening in part of a bottom face of the concave.

4. A casing for use with light-emitting unit according to

Claim 2, wherein there is provided a concave on an outer surface of the second member and there is provided a discharge opening in part of a bottom face of the concave.

5. A casing for use with light-emitting unit according to Claim 1, wherein the discharge opening is formed in such a manner that an opening area of the discharge opening is larger than that of the injection opening.

6. A casing for use with light-emitting unit according to Claim 2, wherein the discharge opening is formed in such a manner that an opening area of the discharge opening is larger than that of the injection opening.

7. A casing for use with light-emitting unit according to Claim 3, wherein the discharge opening is formed in such a manner that an opening area of the discharge opening is larger than that of the injection opening.

8. A casing for use with light-emitting unit according to Claim 4, wherein the discharge opening is formed in such a manner that an opening area of the discharge opening is larger than that of the injection opening.

9. A casing for use with light-emitting unit according to Claim 1, wherein the fluid material is silicone.

10. A casing for use with light-emitting unit according to Claim 2, wherein the fluid material is silicone.

11. A casing for use with light-emitting unit according to Claim 3, wherein the fluid material is silicone.

12. A casing for use with light-emitting unit according to Claim 4, wherein the fluid material is silicone.

13. A casing for use with light-emitting unit according to Claim 5, wherein the fluid material is silicone.

14. A casing for use with light-emitting unit according to Claim 6, wherein the fluid material is silicone.

15. A casing for use with light-emitting unit according to Claim 7, wherein the fluid material is silicone.

16. A casing for use with light-emitting unit according to Claim 8, wherein the fluid material is silicone.

17. A method of manufacturing a light-emitting unit, the method including:

joining together a first member and a second member, of approximately dish-shapes, to be mutually engaged

therewith in such a manner that a substrate on which a light emitting element is mounted is fixedly held therebetween and there is formed a hollow area in which the substrate is disposed therein;

inserting an injector that injects fluid material, which changes to a solidified state, to an injection opening provided in the second member and connected to the hollow area;

starting injection of the fluid material through the injection opening from the injector;

filling a first-member side space and a second-member side space with the fluid material, where the hollow area is divided into the first-member side space and the second-member side space with the substrate as a boundary therebetween; and

stopping injection of the fluid material when the fluid material filled up by said filling is discharged from a discharge opening provided on an outer surface of the second member and a concave provided in the periphery of the discharge opening on the outer surface of the second member becomes full of the fluid material.

18. A method according to Claim 17, wherein the fluid material is silicone.